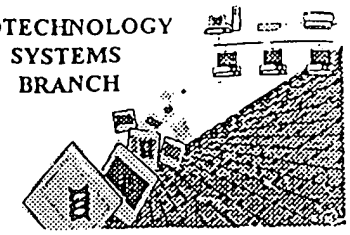
BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/720,424
Source: IFW0
Date Processed by STIC: 12/17/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/720,424

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid

IWFO

RAW SEQUENCE LISTING DATE: 12/17/2003
PATENT APPLICATION: **US/10/720,424** TIME: 07:45:05

Input Set : **D:\Sequenc listing of HPV probes.ST25.txt**
Output Set: **N:\CRF4\12162003\J720424.raw**

3 <110> APPLICANT: ALBIOMED CO., LTD
5 <120> TITLE OF INVENTION: GENERAL PRIMERS AND PROCESS FOR DETECTING DIVERSE GENOTYPES OF
6 HUMAN PAPILLOMAVIRUS BY PCR
8 <130> FILE REFERENCE: OPP2074US
C--> 10 **<140> CURRENT APPLICATION NUMBER: US/10/720,424**
C--> 10 **<141> CURRENT FILING DATE: 2003-11-24**
10 <150> PRIOR APPLICATION NUMBER: KR10-2002-0075370
11 <151> PRIOR FILING DATE: 2002-11-29
13 <150> PRIOR APPLICATION NUMBER: KR10-2003-0053147
14 <151> PRIOR FILING DATE: 2003-07-31
16 <160> NUMBER OF SEQ ID NOS: 16
18 <170> SOFTWARE: PatentIn version 3.2
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 29
22 <212> TYPE: DNA
23 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
25 <400> SEQUENCE: 1
26 gatggtgata tggtagatac aggatttgg 29
29 <210> SEQ ID NO: 2
30 <211> LENGTH: 25
31 <212> TYPE: DNA
32 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
34 <400> SEQUENCE: 2
35 ggcgatatgg ttgatacagg ctttg 25
38 <210> SEQ ID NO: 3
39 <211> LENGTH: 27
40 <212> TYPE: DNA
41 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
43 <400> SEQUENCE: 3
44 gcacaactat ttaataagcc atattgg 27
47 <210> SEQ ID NO: 4
48 <211> LENGTH: 35
49 <212> TYPE: DNA
50 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
52 <400> SEQUENCE: 4
53 ttcttcttac gaagggaaca actgtttgtt agaca 35
56 <210> SEQ ID NO: 5
57 <211> LENGTH: 24
58 <212> TYPE: DNA
59 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
61 <400> SEQUENCE: 5
62 tgatatggtt catacaggat ttgg 24
65 <210> SEQ ID NO: 6

pp 1-3

Invalid response - see Item 10 on Error Summary Sheet

RAW SEQUENCE LISTING DATE: 12/17/2003
PATENT APPLICATION: US/10/720,424 TIME: 07:45:05

Input Set : D:\Sequenc listing of HPV probes.ST25.txt
Output Set: N:\CRF4\12162003\J720424.raw

66 <211> LENGTH: 33
67 <212> TYPE: DNA
68 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
70 <400> SEQUENCE: 6
71 tgtacctgct attggggaac actgggctaa ggg 33
74 <210> SEQ ID NO: 7
75 <211> LENGTH: 23
76 <212> TYPE: DNA
77 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (15)..(15)
83 <223> OTHER INFORMATION: n is a, c, g, or t
85 <220> FEATURE:
86 <221> NAME/KEY: misc_feature
87 <222> LOCATION: (21)..(21)
88 <223> OTHER INFORMATION: n is a, c, g, or t
90 <400> SEQUENCE: 7
W--> 91 gaggtgggcc ggggncarcc nyt 23
94 <210> SEQ ID NO: 8
95 <211> LENGTH: 29
96 <212> TYPE: DNA
97 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
99 <400> SEQUENCE: 8
100 gcgtcagagg ttaccataga gccactagg 29
103 <210> SEQ ID NO: 9
104 <211> LENGTH: 24
105 <212> TYPE: DNA
106 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
108 <400> SEQUENCE: 9
109 agaagtaacc atagagccac tagg 24
112 <210> SEQ ID NO: 10
113 <211> LENGTH: 24
114 <212> TYPE: DNA
115 <213> ORGANISM: Probe for Detecting HPV DNA
117 <400> SEQUENCE: 10
118 aataaactgt aaatcatatt cctc 24
121 <210> SEQ ID NO: 11
122 <211> LENGTH: 35
123 <212> TYPE: DNA
124 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
126 <400> SEQUENCE: 11
127 cataattgaa acataaactg taaatcatat tcctc 35
130 <210> SEQ ID NO: 12
131 <211> LENGTH: 33
132 <212> TYPE: DNA
133 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
135 <400> SEQUENCE: 12
136 taattgggaa tcagaagtaa ccatagagcc act 33

RAW SEQUENCE LISTING DATE: 12/17/2003
PATENT APPLICATION: **US/10/720,424** TIME: 07:45:05

Input Set : **D:\Sequenc listing of HPV probes.ST25.txt**
Output Set: **N:\CRF4\12162003\J720424.raw**

```
    139 <210> SEQ ID NO: 13
    140 <211> LENGTH: 28
    141 <212> TYPE: DNA
    142 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
    145 <220> FEATURE:
    146 <221> NAME/KEY: misc_feature
    147 <222> LOCATION: (21)..(21)
    148 <223> OTHER INFORMATION: n is a, c, g, or t
    150 <400> SEQUENCE: 13
W--> 151 aagccggtgt cgaccatrtc nccrtcyt                                  28
    154 <210> SEQ ID NO: 14
    155 <211> LENGTH: 28
    156 <212> TYPE: DNA
    157 <213> ORGANISM: Probe for Detecting HPV Nucleic Acids
    160 <220> FEATURE:
    161 <221> NAME/KEY: misc_feature
    162 <222> LOCATION: (24)..(24)
    163 <223> OTHER INFORMATION: n is a, c, g, or t
    165 <400> SEQUENCE: 14
W--> 166 ccgaagccgg tgtcgaycat rtcnccrt                                  28
    169 <210> SEQ ID NO: 15
    170 <211> LENGTH: 20
    171 <212> TYPE: DNA
    172 <213> ORGANISM: MY09 Primer for HPV DNA Amplification
    174 <400> SEQUENCE: 15
    175 cgtccmarrg gawactgatc                                            20
    178 <210> SEQ ID NO: 16
    179 <211> LENGTH: 20
    180 <212> TYPE: DNA
    181 <213> ORGANISM: MY11 Primer for HPV DNA Amplification
    183 <400> SEQUENCE: 16
    184 gcmcagggwc ataayaatgg                                            20
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/17/2003
PATENT APPLICATION: US/10/720,424 TIME: 07:45:06

Input Set : D:\Sequenc listing of HPV probes.ST25.txt
Output Set: N:\CRF4\12162003\J720424.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 15,21
Seq#:13; N Pos. 21
Seq#:14; N Pos. 24

VERIFICATION SUMMARY DATE: 12/17/2003
PATENT APPLICATION: **US/10/720,424** TIME: 07:45:06

Input Set : **D:\Sequenc listing of HPV probes.ST25.txt**
Output Set: **N:\CRF4\12162003\J720424.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0